

FIG. 1

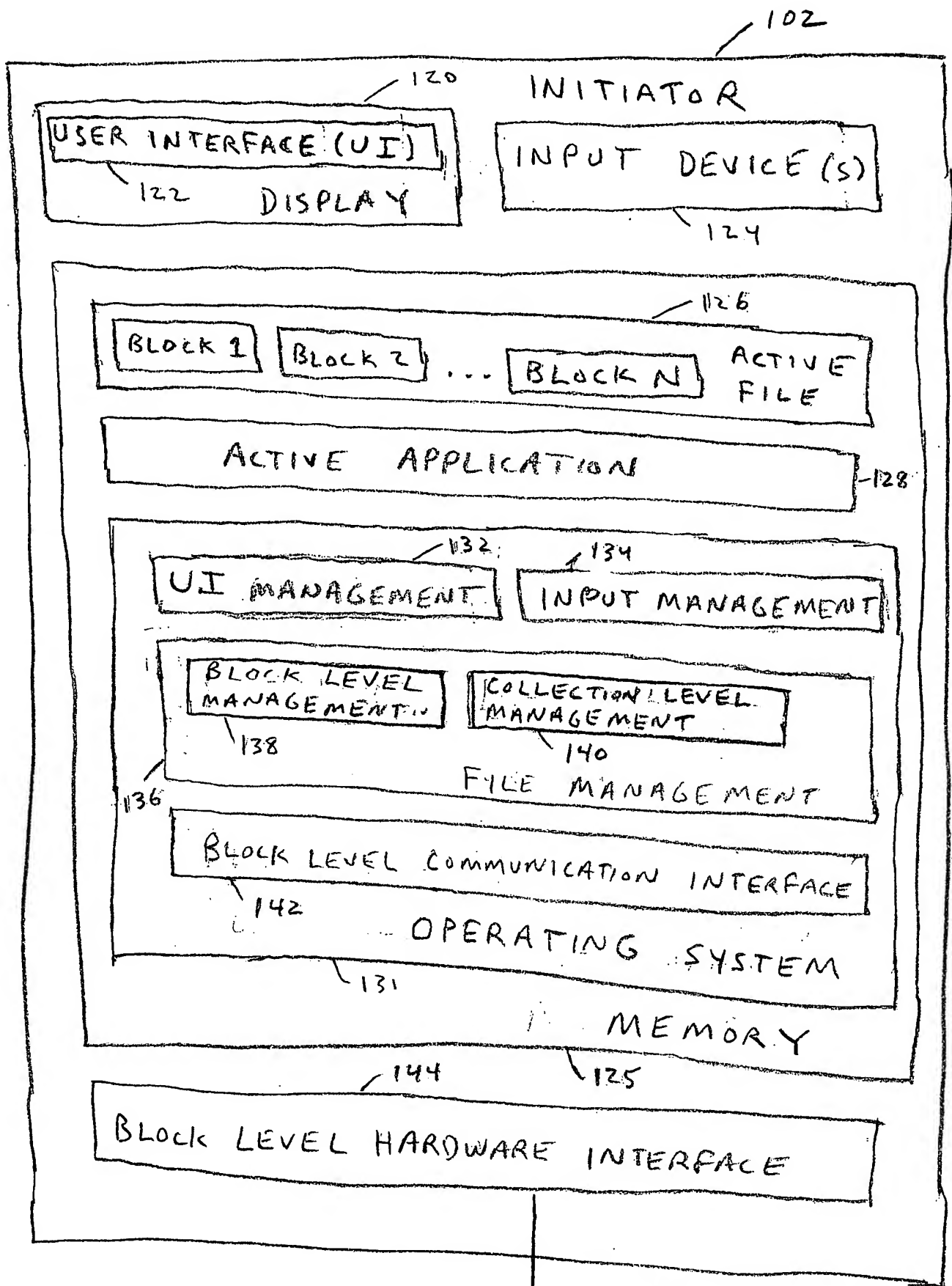


FIG. 2

106 FILE-BLOCK LEVEL COMMUNICATION

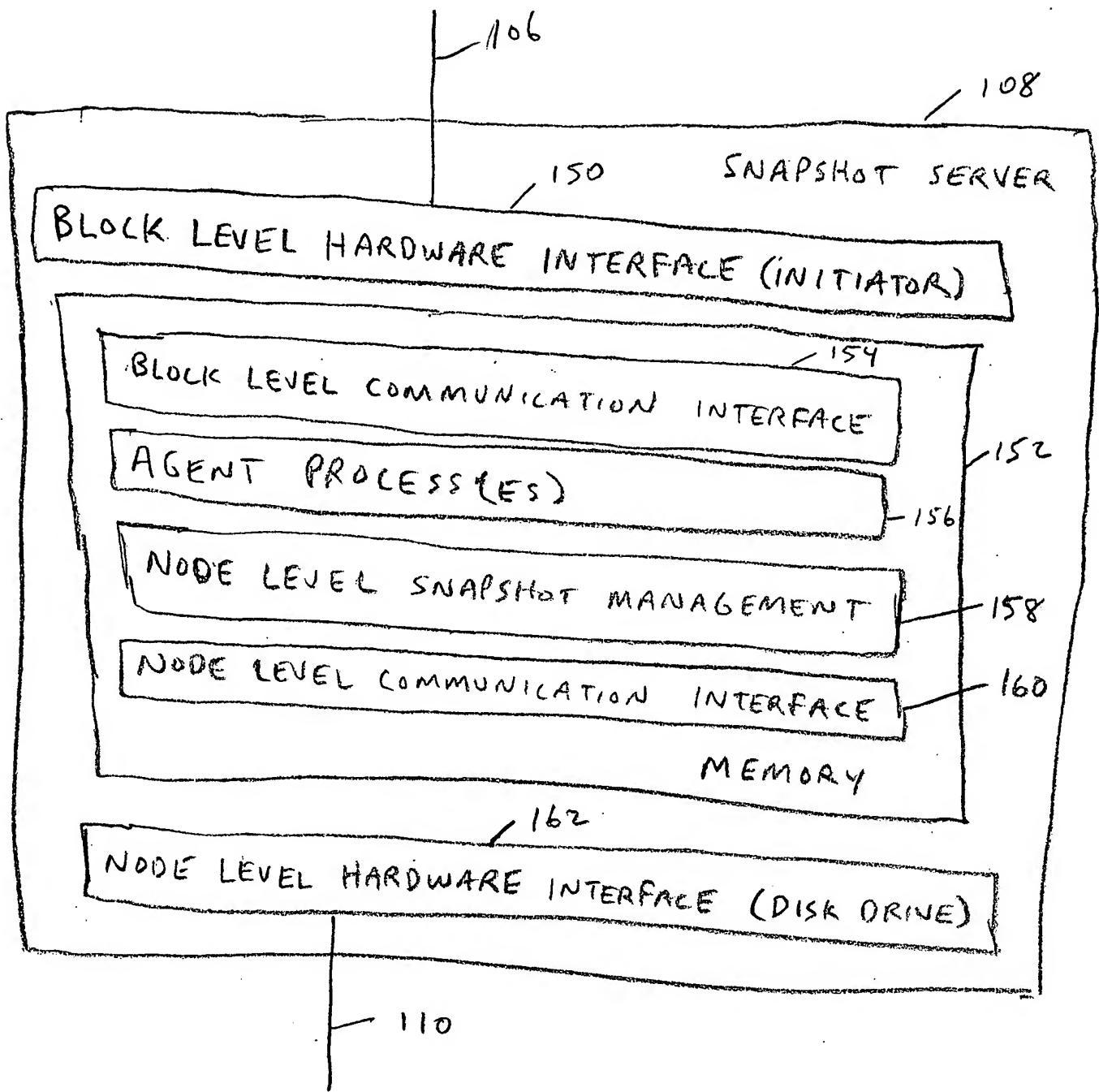


FIG. 3

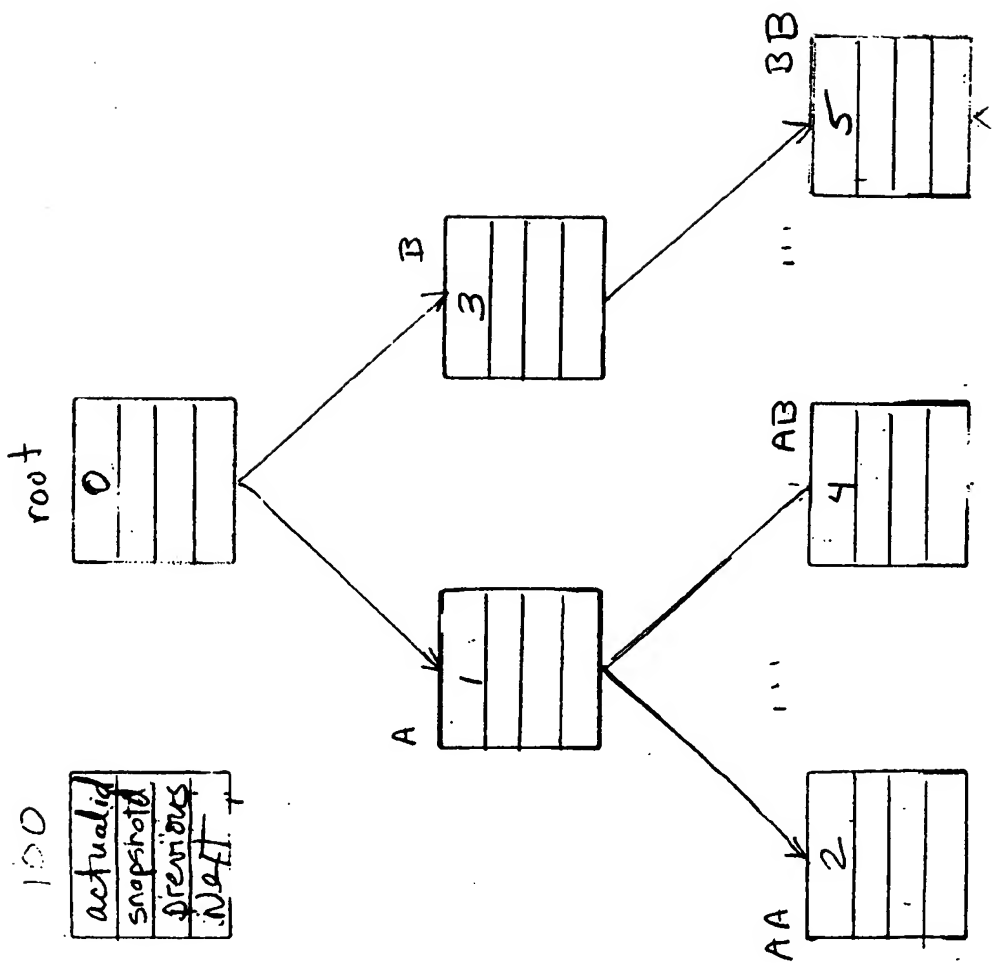


Fig 4

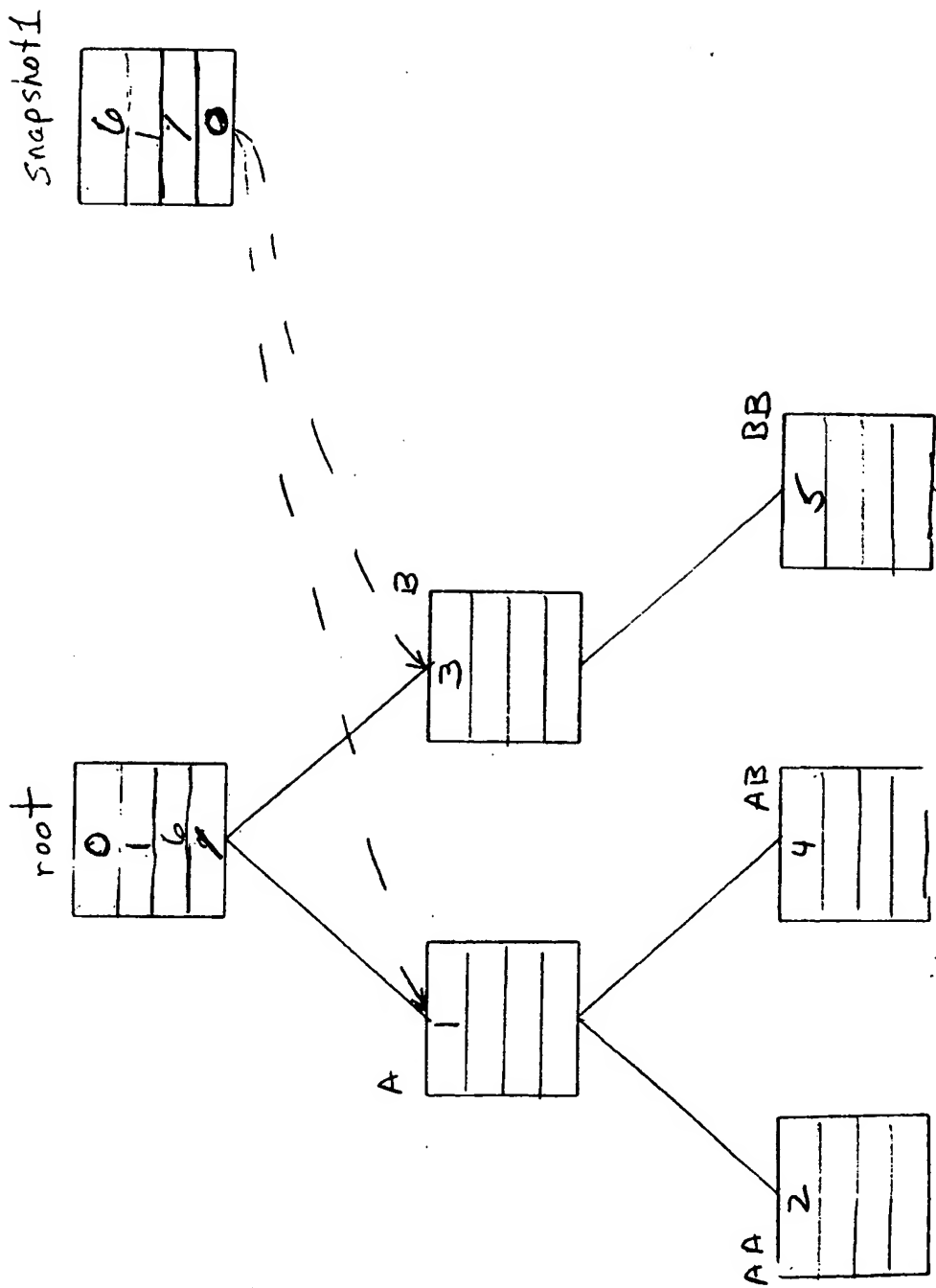


Fig 5

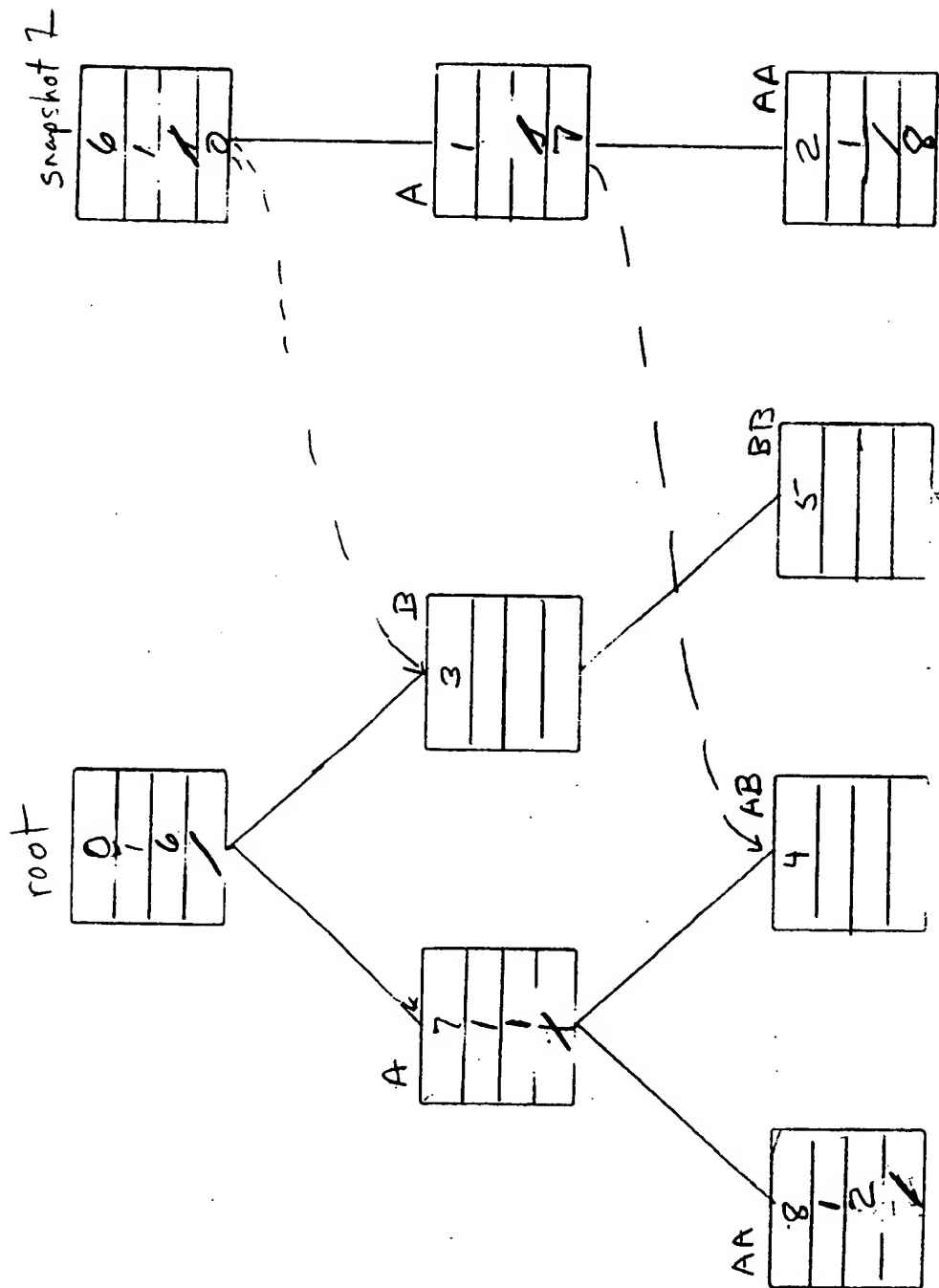


Fig 6

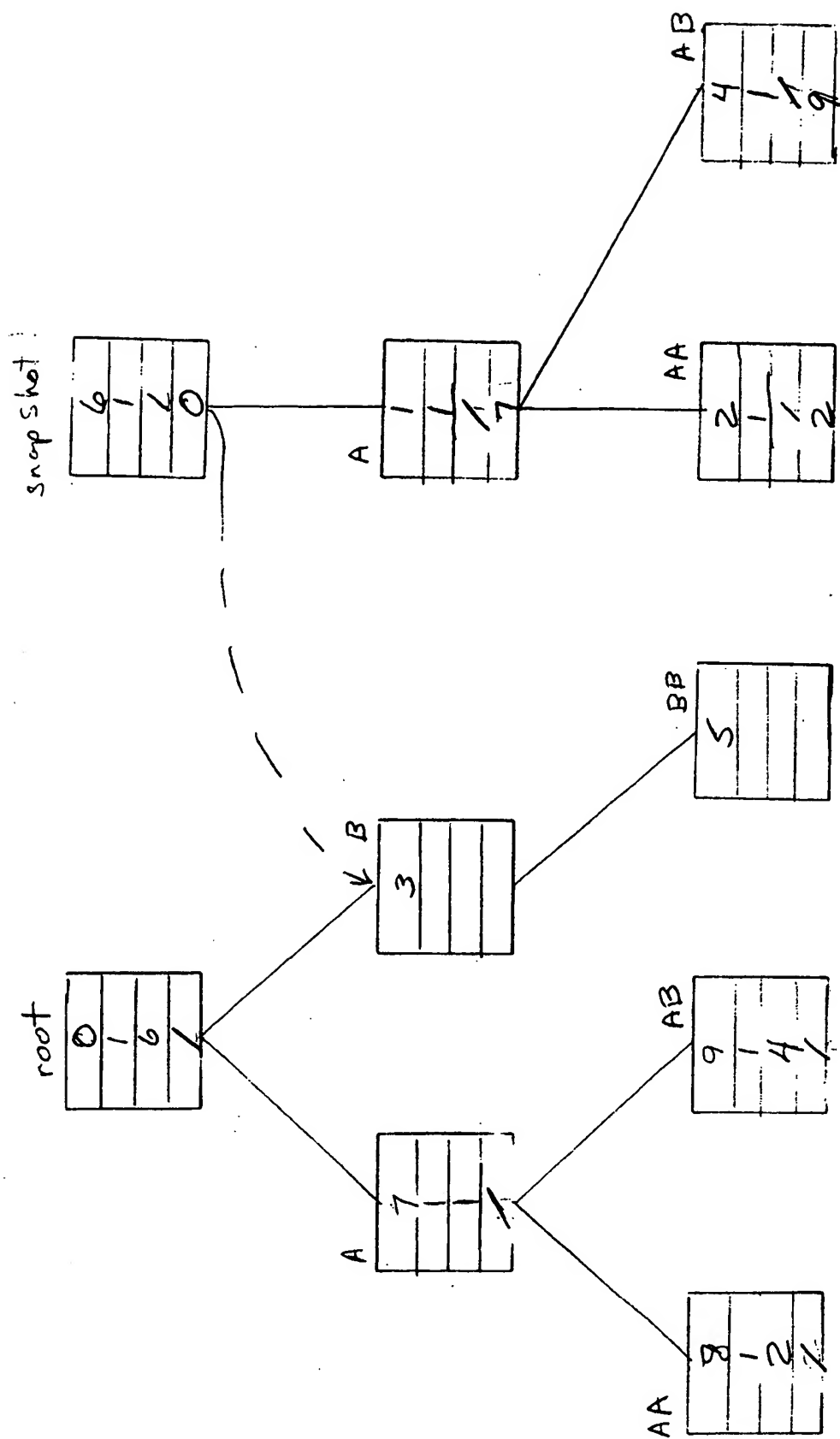


Fig 7

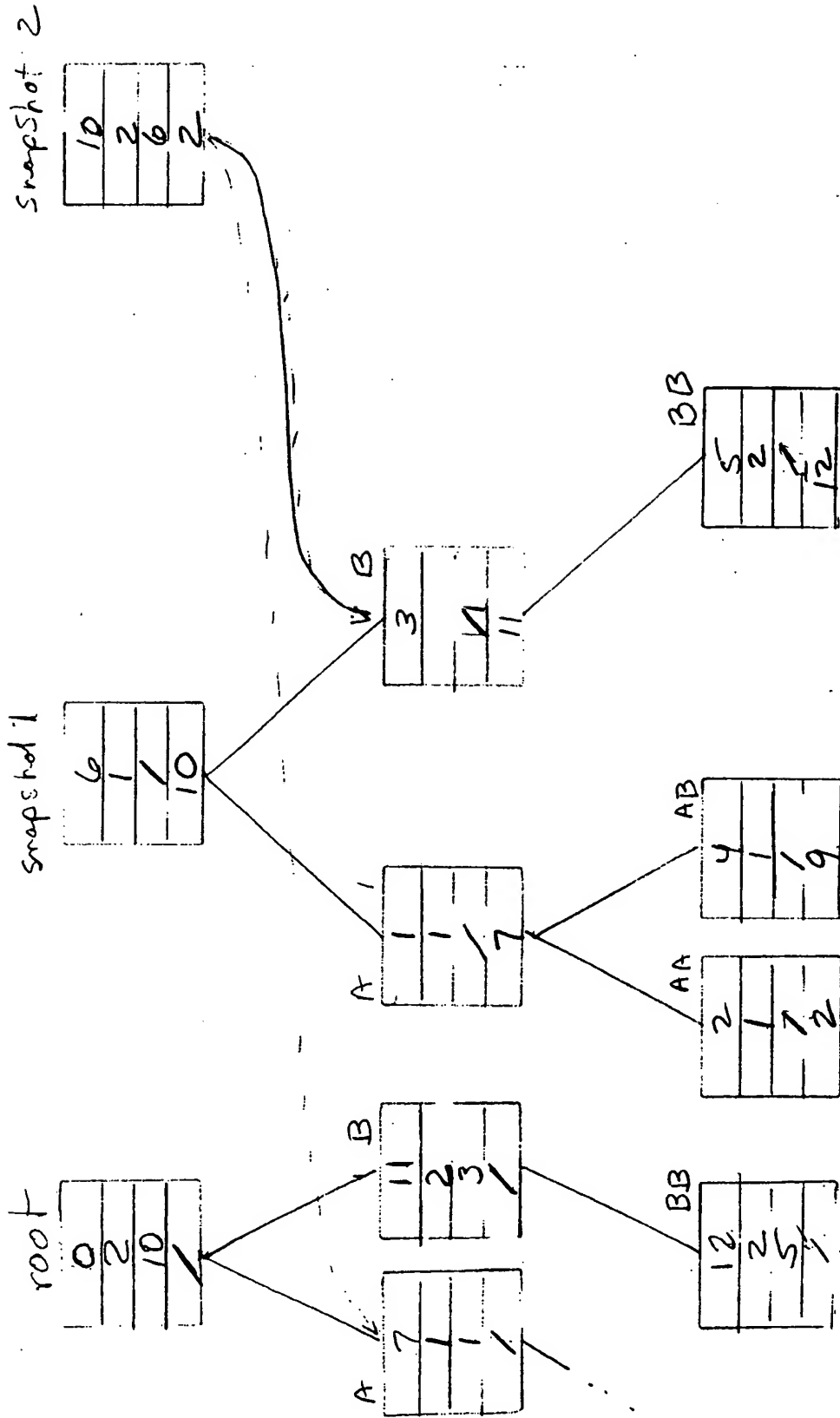


Fig. 8



Fig 9A

AS BY  
1 0 0

601

|   |    |
|---|----|
| 1 | ID |
| 0 | AS |
| 0 | BY |

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|---|
| 1 |
| 2 |
| 2 |

|   |
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| 2 |
| 1 |
| 1 |

602

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|---|
| 2 |
| 3 |
| 1 |

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|---|
| 3 |
| 1 |
| 2 |

603

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|---|
| 3 |
| 4 |
| 2 |

|   |
|---|
| 4 |
| 1 |
| 3 |

604

|   |
|---|
| 2 |
| 3 |
| 1 |

|   |
|---|
| 1 |
| 2 |
| 4 |

AS BY  
1 2 4  
2 3 1  
3 4 2  
4 1 3

AS BY  
1 2 2  
2 1 1

AS BY  
1 2 3  
2 3 1  
3 1 2

$\begin{matrix} 1 & 2 & 3 & 4 \\ 2 & 3 & 4 & 1 \\ 3 & 4 & 1 & 2 \\ 4 & 1 & 2 & 3 \end{matrix}$   
 1 2 3 4  
 2 3 4 1  
 3 4 1 2  
 4 1 2 3

|   |
|---|
| 2 |
| 3 |
| 1 |

|   |
|---|
| 3 |
| 4 |
| 2 |

|   |
|---|
| 4 |
| 1 |
| 3 |

|   |
|---|
| 1 |
| 2 |
| 4 |

605

$\begin{matrix} 1 & 3 & 4 \\ 2 & 0 & 0 \\ 3 & 4 & 1 \\ 4 & 1 & 3 \end{matrix}$   
 1 3 4  
 2 0 0  
 3 4 1  
 4 1 3

|   |
|---|
| 3 |
| 4 |
| 2 |

|   |
|---|
| 1 |
| 3 |
| 4 |

|   |
|---|
| 4 |
| 1 |
| 3 |

|   |
|---|
| 2 |
| 0 |
| 0 |

604

Fig. 9B

|   |
|---|
| 1 |
| 3 |
| 3 |

|   |
|---|
| 4 |
| 0 |
| 0 |

|   |
|---|
| 3 |
| 1 |
| 1 |

|   |
|---|
| 2 |
| 0 |
| 0 |

607

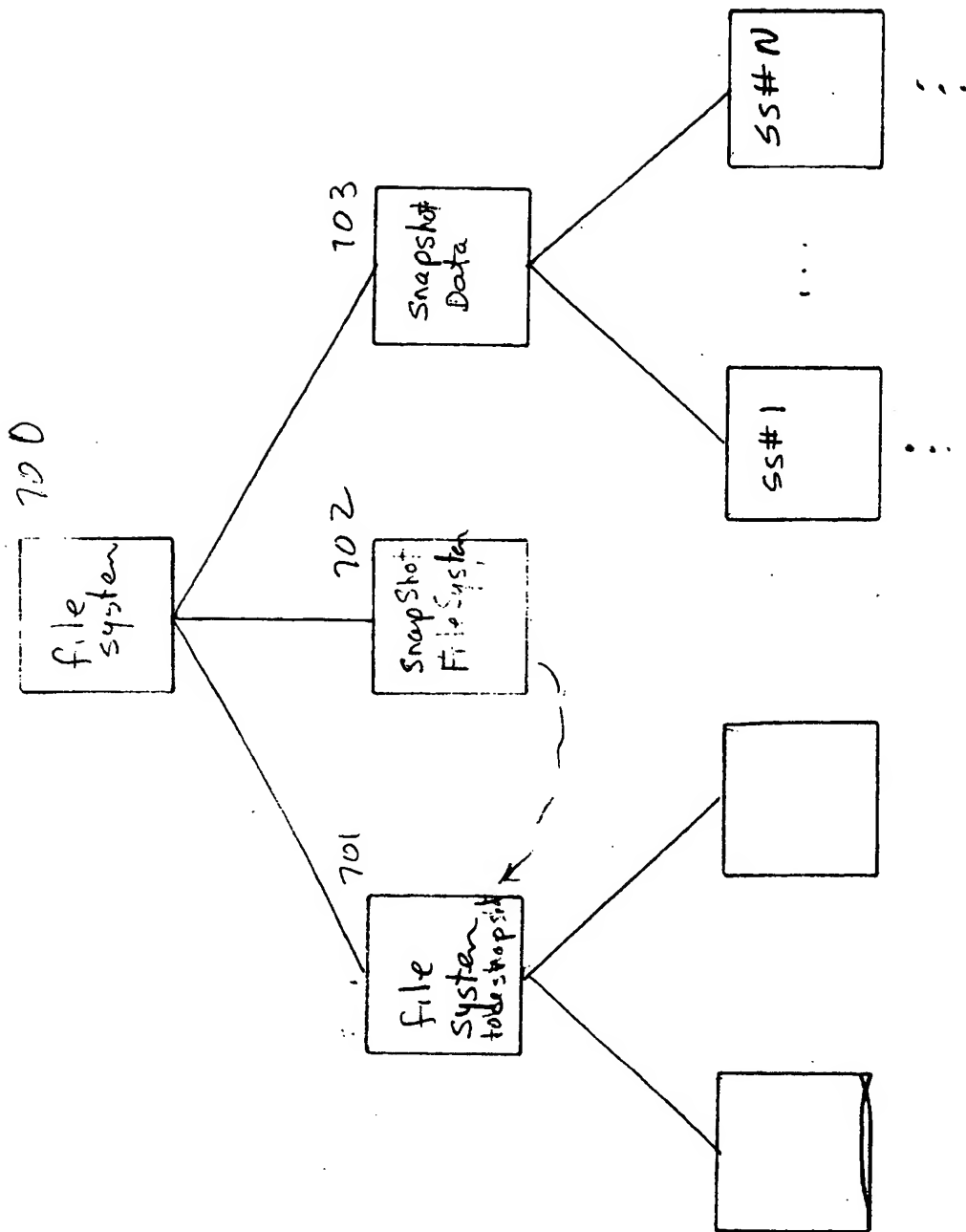


Fig 10

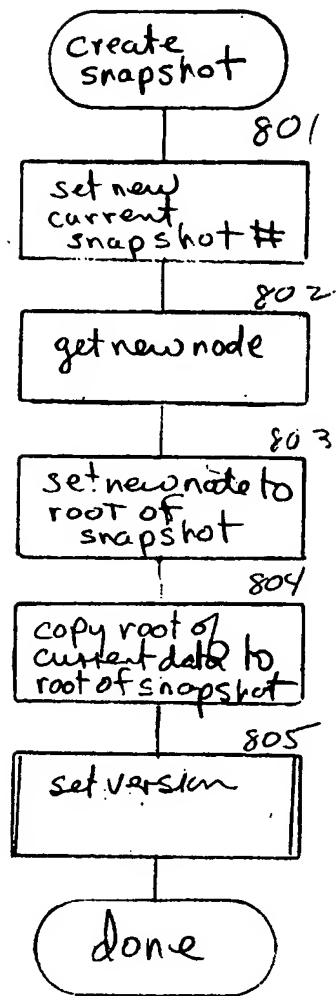


Fig. 11

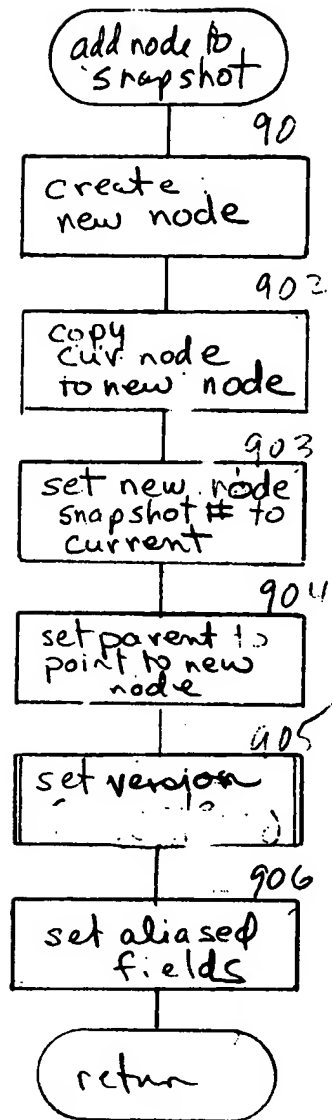


Fig 12

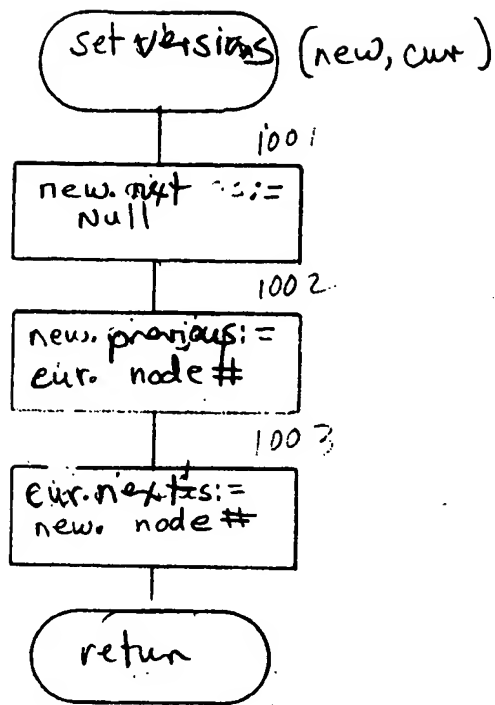


Fig 13

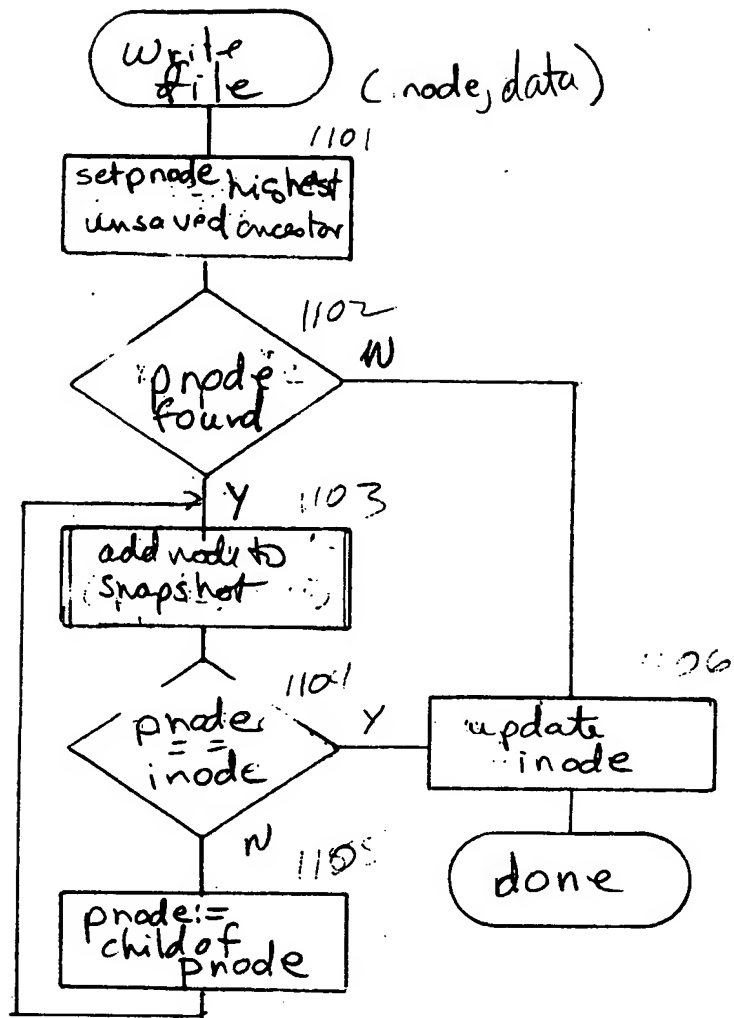


Fig 14